



Photo by Jack Ray

Volunteers Prepare for Open House '98 on Saturday

Open House Chairperson May Wales (second from left) presents an Open House T-shirt to Acting Center Director Carolyn Griner (third from left). Also present are co-chairmen Thom Holden (left) and Mark Boudreaux.

Have Fun, Learn Too, at Open House

by Peter Cobun

It promises to be a day the whole family can have fun — and learn a bit, too — when Marshall opens its doors to the public Saturday, for a revealing look at America's space exploration and research.

A one-of-a-kind, futuristic space ride will take you to "Mars" and beyond. Live test firings will shake the ground under your feet. A roaming, entertaining robot may strike up a conversation with you. Visitors can meet astronauts and watch space-themed musical performances. And live, miniature rocket launches will have you believing you've been transported to "the Cape."

You'll even journey deep inside the labyrinth of Marshall laboratories and test facilities for a rare public glimpse of where Marshall scientists and engineers turn their dreams into reality, using space exploration to improve the health and quality of life for people on Earth.

Admission's free to this full day — 9 a.m. to 6 p.m. — which also marks a special observance of the 25th anniversary of Skylab, the first long-duration American space program wholly dedicated to scientific research.

Bring your camera to record the memories as you travel into America's future, and see a bit of the past. You'll come away with a new understanding of the significant role of the Marshall Center in America's space program.

Throughout the day, you'll run into current and former members of NASA's astronaut corps: James D. Wetherbee, a veteran of four space flights — including commander of a 1997 Space Shuttle mission — who today serves as deputy director of Johnson Space Center in Houston; Kalpana Chawla, who flew the December 1997 Shuttle mission; former astronaut Owen K. Garriott of Huntsville,

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Center Recommended for Continued ISO Registration

Marshall was recommended for continued ISO registration following last week's first surveillance audit by National Quality Assurance.

The recent good results in the surveillance audit of ISO 9001 again is clearly a tribute to the MSFC team," said Bob Schwinghammer, Marshall's associate director, technical, and leader of the Center's quality certification efforts. "The Center has accepted ISO 9001 and is sustaining the commitment to a better way of doing business," he said.

Armstrong Named to Head Aeronautics & Space Transportation Technology

Retired Air Force Lt. Gen. Spence M. (Sam) Armstrong has been named to head NASA's Aeronautics and Space Transportation Technology Enterprise at Agency Headquarters.

Armstrong has served as NASA's associate administrator for Human Resources and Education since September 1991. Prior to that assignment, he served as director of program architecture for the Synthesis Group, formed as a temporary organization from 1990-1991 to develop long-range program architectures for the U.S. human space flight program. In his new position, Armstrong will be responsible for strategic planning, requirements definition and budgetary formulation of NASA's aeronautics research and space transportation technology activities.

Gov. James To Speak at Update Luncheon May 20

The Huntsville/Madison County Chamber of Commerce is sponsoring an Alabama Update luncheon with Gov. Fob James at noon May 20, at the North Hall of the Von Braun Center.

James will present his assessment of the past legislative session and the "state of the state" from his viewpoint. Tickets are \$20 each. Call Mary Rutledge at 544-5252 for reservations. Reservation deadline is Thursday.

Center Recognizes Skylab's 25th Anniversary This Week

by Mike Wright

Marshall employees and retirees are marking the 25th anniversary of Skylab this week.

Launched on May 14, 1973, Skylab was the first long-duration American space program wholly dedicated to scientific research, and the Marshall Center played an extremely important role in this unprecedented scientific venture.

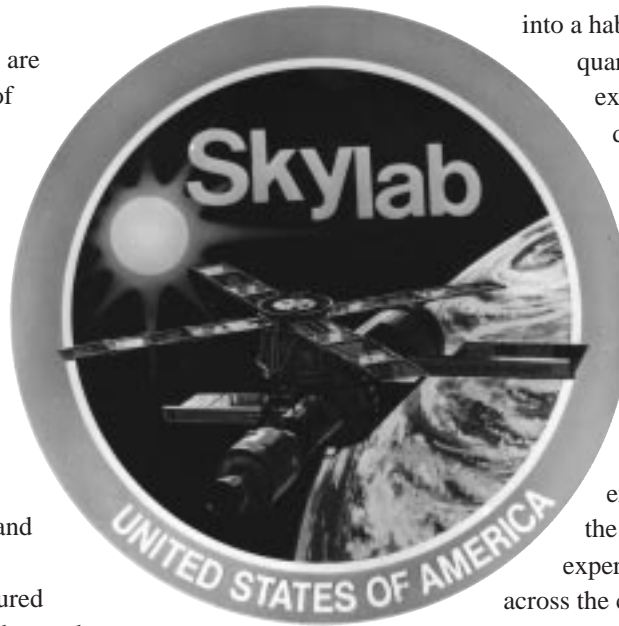
Open House Display

A display at this Saturday's Marshall Center Open House will include Skylab memorabilia, photos and commemorative items. Skylab crew member Owen Garriott will be a featured attendee. The display area will be in the northeast courtyard near Bldg. 4200.

Development at Marshall

Skylab's three different three-man crews spent up to 84 days in Earth orbit and performed a variety of more than 100 experiments. Marshall Center developed the major Skylab components and the four Saturn launch vehicles used to launch the orbital cluster and its three separate crews. Marshall was also responsible for directing many of the experiments.

Marshall engineers designed the centerpiece component for Skylab, the orbital workshop, by converting a Saturn rocket stage



into a habitable space module containing living quarters and support systems, as well as experiment areas. Marshall also

developed the Skylab airlock module, docking adapter, and Apollo

Telescope Mount -- the first manned astronomical observatory designed for solar research from Earth orbit.

The Center was also responsible for investigations in materials processing and solar physics, and designed and built a series of Skylab biomedical experiments. Marshall also served as the NASA interface for a series of Skylab experiments proposed by students from across the country.

On May 14, 1973, NASA launched Skylab into space using a Saturn V rocket. Unfortunately, a huge panel protecting the orbital workshop from micrometeoroids and solar radiation ripped off seconds after the launch. NASA had originally planned to launch its first three-man crew to Skylab on May 15 using a Saturn IB rocket. Faced with a crisis, however, NASA put those plans on hold. Rising temperatures inside the workshop and a crippled electrical power system dogged engineers at Marshall and at other centers. Some Marshall employees stayed at their posts from dawn Monday through Wednesday looking for immediate and long-term solutions. Hundreds at the Center were involved in the relentless 10-day effort to identify the repair procedures and equipment that the astronauts eventually carried into space and used to save Skylab.

Skylab's Crew Members

Skylab's first crew went into space on May 25, 1973, and returned home on June 22. A second crew was launched on July 28 and splashed down on September 25.

Repair procedures were part of both missions, but attention also focused on the scientific data that Skylab gathered. For example, the second mission orbited a pair of common spiders, Arabella and Anita. The experiment was designed to determine the spiders' ability to spin a web without the influence of gravity. This was one of the Skylab student experiments coordinated by the Marshall Center.

The third manned Skylab crew went into space on November 16 and splashed down in February 1974, setting a new endurance record and reflecting man's ability to live and work in space for extended periods of time.

In the years that followed, the empty Skylab continued to circle the Earth as its orbit began to decay. NASA regained some control over Skylab in the spring of 1979, and managed to steer it to reentry over the Indian Ocean.

Rose Selected Space Sciences Laboratory Deputy Director



Dr. Frank Rose

Dr. Frank Rose has been appointed deputy director of Marshall's Space Sciences Laboratory, Science and Engineering Directorate.

Rose joins the Center from Auburn University where he served as the director of the Space Power Institute, and as professor of electrical engineering.

Rose's experience has been gained in private industry, academia and the federal government. From 1961 to 1985, he worked for the Naval Surface Warfare Center as a scientist and researcher. In 1985, he was selected by Auburn University to head the newly established Space Power Institute with a goal of addressing research and development problems in advanced power technology.



Photo by Terry Leibold

Talmage Reynolds, manager of Marshall's contractor industrial labor relations program, ensures that union problems or unfair labor practices do not impact the mission at Marshall.

Reynolds' Labor Enhances Employee Relations

by Steve Calatrello

Some people strive for recognition in the workplace. But Talmage Reynolds, manager of Marshall's contractor industrial labor relations program, is pleased that most people don't recognize his name or know what he does.

"It's a good sign," Reynolds said. "It means I'm doing my job." Though Reynolds welcomes his anonymity, his presence is a critical part of the Marshall team keeping Marshall's day-to-day center support services operations running smoothly.

"My overall objective is to ensure that union problems or unfair labor practices do not impact Marshall's mission," said Reynolds.

So far, Reynolds has an excellent track record. In his nine years at Marshall, he doesn't recall the Marshall mission ever being disrupted by a labor strike.

Reynolds says his secret is simple — keep people talking.

"Even when there are disputes, I strive to keep people talking," said Reynolds. "If I can't keep them at the table talking to one another, there's no way they can resolve their issues."

Through the years, Reynolds said he has learned to respect the concerns and interests of both management and labor and realize they each have "an awesome responsibility."

"I know from listening to their concerns," said Reynolds, "that the only way to be successful is to work together in labor-management partnerships, where the key to success is mutual respect and common interest bargaining."

But keeping people talking with one another and committed to resolving their differences is not always easy. When Reynolds first came to Marshall in 1989, he knew he'd have a big job ahead of him because of the tenuous relationships between management and labor.

"Things were very tense and uneasy back then," said Reynolds. "There was mutual distrust between management and labor."

To help improve these relationships, Reynolds founded the Area Labor-Management Relations Committee, an innovative program designed to promote communications and rebuild trust between management and labor.

Today, bi-monthly meetings take place "on neutral soil," and includes lunch and a guest speaker. At their last meeting, representatives from the Saturn Corporation, both management and labor, spoke about their joint teaming efforts and the success they have had in the automobile industry. June's meeting will feature Bernard E. Anderson, Assistant Secretary of Labor, Employment Standards Administration, U.S. Department of Labor.

"We always try to have a guest speaker that will appeal to the shared interests of the committee," said Reynolds. "If I can get our people out there to listen to success stories, I believe some of it will rub off on them."

Though the concept of people getting along and working together is an easy concept to grasp, it's not always easy to implement. Reynolds is responsible for working with unions in the private sector and ensuring that the National Labor Relations Act and the Federal labor standards or statutes — provisions that government contractors must adhere to — are upheld. That can be hard sometimes.

"A part of what I do," said Reynolds, "is try to ensure that the field is balanced when companies compete for government contracts at Marshall. As part of a team that evaluates proposals, I evaluate the labor relations and labor standards portions of proposals to make sure companies aren't underbidding the contract by cutting the service employees' wages and fringe benefits and that they adhere to the requirements of the National Labor Relations Act."

Last year, Reynolds said Marshall had more than 10 contract re-competitions, which kept him extremely busy. This year, however, Reynolds expects to be involved with three or four evaluations, giving him a little more time and energy to pursue some of his other passions away from work — his family, his church and his involvement with the Alabama Chapter of Industrial Relations Research Association.

As immediate past-president of that organization, Reynolds worked closely with Alabama universities, taking the "lessons learned" in labor relations to the next generation of managers. "Interfacing with the universities has really been a great experience for me," Reynolds said. "Our goal is to share the 'best practices' in management and labor relations with tomorrow's management group. Hopefully, they can learn both from our mistakes and our successes."

A large part of Reynolds' commitment to doing a good job stems from his childhood growing up in rural Mississippi. He spent his summers working on cotton farms until 1965, when he graduated from high school and began his civil service career.

"When I started this odyssey 33 years ago, I knew that if I worked hard — like I had as a boy — I could make something of myself," said Reynolds. "Even years ago, it was always my dream to be part of NASA."

So as Reynolds quietly does his job, he serves to remind the rest of us that dreams do come true — even for the anonymous.

Full Day of Sights and Activities Await Open House Visitors on Saturday

Marshall will throw its doors open to the public this Saturday for Open House '98. A variety of sights and activities await visitors. Open House guests will be able to view the Space Station being built, meet astronauts, see rocket tests and visit Mission Control Huntsville, in addition to a host of other exciting activities. Admission is free to this full day — 9 a.m. to 6 p.m. — which also marks a special observance of the 25th anniversary of Skylab.

NASA Business Card Prices Increase on June 1

NASA business card prices will increase substantially on June 1, according to the NASA Exchange Office at Marshall. NASA employees and retirees interested in ordering business cards at the current rates should do so by May 18. Current rates are: \$18 for 2-color, 500 quantity; \$21 for 2-color, 1,000 quantity; \$27 for 3-color, 500 quantity; and \$33 for 3-color, 1,000 quantity.

Orders can be placed at the NASA Exchange in Bldg. 4752. For more information, call the Exchange at 544-7564.

CFO Services Unavailable Thursday; Will Resume on Friday

On Thursday, the Office of Chief Financial Officer (CFO) is having a day long meeting for all staff members. As a result, the accounting operations, payroll, travel and budget personnel will not be available on this day. You may leave messages on the answering system or send e-mail messages and CFO personnel will contact you Friday.

NASA Administrator Goldin and First Lady Join Trans-Atlantic Classroom

Using the Internet, First Lady Hillary Rodham Clinton and students at the Ecole Nationale de Chimie, Physique et Biologie in Paris will talk to NASA Administrator Dan Goldin and students at Kramer Middle School in Washington, D.C. Today at 10 a.m. CDT, American and French space agencies will connect students in Washington, D.C., New York and Paris.

Students will share groundwater and vegetation data collected using the CERES satellite and lead each other on tours of their respective cities.

Building on extensive cooperation in space research, NASA and the Centre National d'Etudes Spatiales (CNES) are forging an international educational program that capitalizes on the wonder and excitement of space. The First Lady and Goldin also seek to address recent studies that show U.S. students lagging behind in science and mathematics.

Obituaries

Kroh, Hubert, 90, Huntsville, Ala., died April 14. He retired from Marshall in 1970 where he worked with the Von Braun team as a technician. He is survived by his wife Elizabeth Kroh.

Pickard, Mitchell, 69, Madison, Ala., died April 15. He retired from Marshall in 1988 where he worked as a quality assurance specialist.

Hazardous Chemicals Collection Planned Center-wide

As part of the Marshall Center Operations Support Services contract, EG&G Inc. personnel perform hazardous material inspections of reported inventories Center-wide. As a result of these inspections, EG&G Inc. personnel have found that some chemicals are out of shelf life, no longer being used, or "sitting around." It is estimated that at least 10 percent of the chemicals at Marshall fall into one of these three categories.

To establish and maintain appropriate inventories, "Amnesty Days" or "user-friendly" turn-in sessions have been planned at Marshall. This program will afford all users or holders with the opportunity to clear the shelves of hazardous materials with no questions asked. Simply hand it over for final disposition, and the EG&G Environmental Branch will ensure proper disposal. The only materials not accepted at Amnesty Stations are:

- damaged, corroded, or leaking containers
- radioactive material
- explosives or incendiaries
- medical wastes or materials, including experimental microbes

Only materials ordered for and used by Marshall government or contractor operations may be turned in. No personal items will be accepted. Items too large for transport to Amnesty Stations, or which fall under the listed limitations may be disposed of by notifying the EG&G Environmental Branch at 544-4787.

Amnesty Station locations, date and hours of operation are listed below. Household/personal items can be turned in for disposal on the first Saturday of each month 8 a.m. - noon at the Handle With Care Collection Center, 4100 Leeman Ferry Road in Huntsville. If you have any questions, contact John Troy at 544-4787.

Amnesty Day Schedule and Proposed Participants

"No questions asked" turn-in of hazardous materials will be conducted on the dates listed below. Exact locations within specific buildings or areas will be provided at a later date.

AREA	LOCATION	DATE	TIME
4700	South of 4705	May 21	9 a.m.-2 p.m.
4600 North	West of 4612	June 16	9 a.m.-2 p.m.
4500 (East Test Area)	TBD	July 22	9 a.m.-2 p.m.
4600 (West Test Area)	TBD	Aug. 17	9 a.m.-2 p.m.
4300/4400	North of 4481	Sept. 14	9 a.m.-2 p.m.
Miscellaneous*	TBD	Oct. 15	9 a.m.-noon

*Amnesty Days for organizations not specifically listed will be scheduled at a later date.

Times listed will be extended as the volume of material turn-in dictates.

Upcoming Events

Health & Fitness Expo May 20 Features One-Mile Walk

Marshall will recognize National Employee Health and Fitness Day May 20, by hosting a Health & Fitness Expo 10 a.m.-1:30 p.m. in Bldg. 4752. Marshall's Medical Center and the NASA Exchange Physical Exercise Program will sponsor this event, to be held annually.

The Expo will feature a variety of exhibits offering information about traditional and nontraditional medical and health fitness services available in the Huntsville area. Health and fitness demonstrations, along with a one-mile walk, are also planned. The walk is set to begin at 11 a.m. Shuttle transportation will be provided for attending employees from various locations Center-wide. Door prizes will be awarded following the event.

Marshall employees, contractors and family members are invited. For more information, call Pat Mirandy at 4-7570.

Savings Bond Campaign Kickoff Set for 1:30 p.m. Thursday

The 1998 U.S. Savings Bond Campaign kickoff ceremony is set for 1:30 p.m. Thursday in Morris Auditorium.

John Helmke, area manager for the U.S. Treasury Department in Birmingham, Ala., will provide the latest information on Series EE Savings Bonds. Bonds purchased on or after May 1 will earn 5.06 percent interest and will increase in value monthly, with the interest rate compounded semi-annually. However, bonds cashed before they are five years old will lose the last three months of interest.

The Jacksonville State University Show Choir is scheduled to perform. NASA employees are invited. The Savings Bond Campaign at Marshall will be held May 18-29. Contact Dorthy Barnett at 4-7542 for more information.

Open House

Continued from page 1

a veteran of both Skylab and Shuttle missions; and former alternate payload specialist Dr. Rick Chappell of Huntsville.

Take a "journey" to Mars aboard the "Morphis MovieRide Theater," making its debut at Open House '98. This mobile simulator will allow you to catch your breath just long enough before shooting you down a ski slope or putting you in the driver's seat of a careening race car. Kids can board a "flight" on one of a dozen miniature pedal-planes.

Visit Marshall's Trisonic Wind Tunnel — where today's and tomorrow's launch vehicles undergo stringent testing — to witness a blast of wind at five times the speed of sound. See a live test firing at the Hot Gas Facility — a high-velocity wind tunnel where hot gasses, released at four times the speed of sound, test materials used on the most advanced space vehicles.

You'll see the real International Space Station, the permanent laboratory, now being assembled by the Boeing Co. at Marshall. And you'll "experience" what it'll be like as an astronaut aboard the Space Station, as you walk through a full-scale mock-up.

View a Bit of Yesteryear

See Spacelab Mission Operations Control Center, where Shuttle science missions were managed and ground controllers could be heard saying, "Spacelab, this is Huntsville."

See Tomorrow

View the operations center at Marshall, where science activities aboard the Space Station will be controlled.

Marshall's Space Sciences Laboratory researchers are working to unlock the mysteries of the universe through space-

and ground-based investigations. For Marshall's Open House, the Laboratory will open its doors for you to see things like "frozen smoke," the world's lightest solid material, that could insulate you from winter's harshest cold.

There's more to see

See the world's flattest floor, where robots are tested for space missions; a simulated rendezvous and docking of two spacecraft; the one-of-a-kind vacuum chamber test facility, where X-rays are shot through a tube a third-of-a-mile long to test and calibrate telescopes for space observatories.

Peek Into the Future

Visit Marshall's advanced engine test facility, where, this summer — for the first time in history — a Russian-built rocket engine will be tested at a U.S. government facility.

Children visiting Marshall's TV studio will be "suspended" in an outer space scene as

technicians snap their photo. They'll take home a free, 5-by-7-inch souvenir color print of themselves from "space" to show their friends.

Other souvenirs, as well as refreshments and food, will be available for purchase at locations throughout the Center.

Visitors can enter Redstone Arsenal for the Marshall Open House through three gates on Saturday: Gate 9, at the Rideout Road exit of Interstate 565; Gate 8, at Drake Avenue and Jordan Lane; and Gate 7, at Zierdt Road near the Huntsville International Airport.

A large, color map of Marshall, as well as an information-packed Marshall booklet, will be distributed to visitors as they enter the arsenal. Every tour stop is accessible to the handicapped.



James Wetherbee



Kalpana Chawla

Meet Astronauts at Open House on Saturday

NASA astronauts will be signing autographs during Open House Saturday at Marshall.

Employee Ads

Miscellaneous

- ★ German Shrunk wall unit, \$900; 21 cu.ft. Kenmore freezer, \$600. 830-8339
- ★ Girl's bedroom suite, single poster bed, white bureau & mirror, \$300. 883-5168
- ★ Fisher Price dollhouse with accessories, \$60. 721-9005
- ★ 1992 Chaparral SL 1800 Ski boat, Volvo Penta 110hp, bow rider, dry docked, \$7,300. 881-0713
- ★ Kenmore Freezer 15 cu.ft., \$175; Craftsman 4 x 36 belt sander, 6" disc, \$50; 2-wheel grinder, \$20. 880-8134
- ★ Rose/pink bedskirt/pillow shams, full size, \$5; Orchid/plum bedskirt, 2 pr. coord. window treatments plus dec. pillow, \$12. 883-5543
- ★ Mortal Combat game for PC, \$10; Nintendo w/ 2 controllers, gun & 7 games \$20; Nintendo Jumping Power Pad \$10. 880-3402
- ★ Electric organ, Lowery Jubilee, model M-500, w/sheet music, \$500, 881-6670
- ★ John Deere commercial 21" self-prop. mower w/bag, elec. start motor, \$65. 837-0085
- ★ 1996 Mastercraft, Prostar 190, 560 hrs, bimini top, AM/FM cassette, \$19,000. 534-8176
- ★ Turtle sandbox, \$15; Fisher Price table/seat, \$10; Fisher Price carseat, \$30; umbrella stroller, \$1., 851-9982
- ★ MTD lawn tractor, 38" deck, 12hp \$300. obo; power lift for outboard 5-90hp, \$250. 837-4136
- ★ 60" beveled glass and brass table w/ four gray velvet chairs, \$300 obo, 895-0463
- ★ Duracell DR-12 rechargeable battery for Cannon camcorder, \$40. 895-9520
- ★ Heavy duty metal trailer, 5' x 12' x 18", electric brakes and tongue jack. \$450. 859-4833
- ★ G.E. microwave under hood, Space Maker Plus sensor cooking control, \$400 obo, 539-5995
- ★ Antique bedroom suit, dresser, 2 night stands, head board, \$650 obo. 539-5995
- ★ Full-size bed/frame \$75; baby items; Kenwood stereo speakers 15" woofers. 881-8674
- ★ Draperies, 3 pr. light blue; 2 pr. ivory; 1 pr. gold 118" wide; includes traverse rods and custom sheers, make offer. 534-5653
- ★ 17' O'day daysailer w/trailer, \$795 obo. 881-8674

Vehicles

- ★ 1996 Nissan 240 SXSE, moonroof, CD, extended warranty, gold package, \$15,000 obo. 772-3800
- ★ 1996 Pontiac Transport van, \$12,500. 830-8339
- ★ 1993 Ford Escort LX, 2 door hatch, white, 52K miles, AM/FM/CASS, \$4,500. 830-4846
- ★ 1993 Pontiac Transport, 75K miles, 3.8L engine, \$7,250. 883-5778
- ★ 1997 Honda VFR 750F, 21K miles, \$5,500 obo. 882-9407

- ★ 1998 Honda VTR 1000 Superhawk, 6K miles, TBR pipes, Lockhart lower, \$6,750 obo. 882-9408
- ★ 1986 BMW K100 RT, 75K miles, Lufmeister pipe, bags, \$2,750 obo. 882-9407
- ★ 1989 Olds, Delta 88, \$1,995. 922-0958
- ★ 1989 Buick Century custom sedan, 25K miles AT/AC, gray metallic, \$4,100. 539-5643
- ★ 1995 Buick Regal, white, 7K miles, AC/PW/PL, \$15,000. 772-3629
- ★ 1993 Dodge Grand Caravan ES, 48K miles 7YR/75K extended warranty, \$13,900. 773-2289
- ★ 1993 Mazda 626 LX, white, 4 dr., 2.0L, 5-spd., 52K miles, \$9,000. 461-8359
- ★ 1993 Ford Escort LX, 51K miles, Auto, A/C, PS/PB, AM/FM/Cassette, \$4,500. 830-4846

Center Announcements

- ✦ **New Website Provides NASA Employees Business Travel Tips** — The Professional Development Program homepage is now available on the World Wide Web at www.hq.nasa.gov/office/codef/codeft/pdp/. This site provides NASA employees with up-to-date, useful information on all aspects of travel between Centers.
- ✦ **MARS Fishing Club** - The MARS Fishing Club had its bream tournament May 2 at Browns Creek. Ross Evans and Charlie Cothran were awarded first place. Second place went to Alex Rawleigh and Ken Anthony. Bill McPeak and Joe Thomas took third. Big fish honors went to Charlie Cothran. The club would like more participation from NASA employees, dependents and on-site contractors. A boat and experience are not required. Call John Pea at 544-8437, Don McQueen at 544-9073, or Charlie Nola at 544-6367 for details.
- ✦ **Mandatory OSHA Hearing Conservation Training for Designated Personnel** — Mandatory OSHA Hearing Conservation Training is scheduled for May 19, 21 and 27 in Bldg. 4200, Morris Auditorium. Two sessions will be offered each of the three days — 8 a.m. and 9:30 a.m. These times and dates allow employees the opportunity to attend one of the six scheduled classes. MSFC personnel, contractor and civil service, (a) working in areas which may expose them to excessive noise levels, (b) who require the use of hearing protection and (c) who receive a mandatory hearing exam at the Medical Center are designated as being on the MSFC Hearing Conservation Program and are required to attend. If you have any questions, call MFSC's Environmental Health Office at 544-2390.
- ✦ **MARS Ballroom Dance Club** — The MARS Ballroom Dance Club offers intermediate Mambo and Merengue lessons, 7- 8 p.m. and beginners' Foxtrot and Triple Swing lessons, 8-

9 p.m. on May 18 and 25. Classes will be held in the Parish Hall of St. Stephen's Episcopal Church at 8020 Whitesburg Drive. These lessons are available to club members and their partners/guest at \$8 per person. For more information call Pat Sage at 544-5427.

✦ **Toastmasters' International** — The NASA Lunar Nooners Toastmasters Club will meet on Tuesday May 19 at 11:30 a.m. in Bldg. 4610, cafeteria conference room. MSFC employees, contractors and friends are invited to attend. For more information, call Debbie Hagar at 539-4499, or Lee Johns at 544-5142.

✦ **Voters' Registration** — Information about voting registration for Madison County residents will be available 9 a.m.-1 p.m. May 18-19 in the lobby of Bldg. 4200. Registration forms for other Alabama counties will also be available. For more information, call Floyd Clark at 837-0382.

✦ **Shuttle Buddies** — The Shuttle Buddies will meet for breakfast May 25 (each 4th Monday) at 9:15 a.m. at Shoney's, University Drive West. For questions call Deemer Self at 881-7757.

✦ **Public Inquiries** — Please visit the Public Inquiries Office located in Bldg. 4200, room 101. Imagine better disease-fighting drugs and medicines, or a movie studio where out-of-this world effects won't be just "special effects". Read about these and more in the Advanced Space Transportation Program brochure. Other publications and handouts related to Marshall and NASA are available.

Job Opportunities

Reassignment Bulletin: 98-19-JB, AST, Technical Management, GS-801-13, Space Shuttle Projects Office, Reusable Solid Rocket Motor Project, Business Management Office. Closes today.

Reassignment Bulletin: 98-10-DC, AST, Technical Management, GS-801-12/13, Microgravity Research Program Office, Program Planning and Control Office. Closes tomorrow.

Reassignment Bulletin: 98-18-DC, AST, Mission Operations Integration, GS-801-14, Microgravity Research Program Office. Closes tomorrow.

CPP 98-40-DC, Supv. AST, Optical Physics, GS-1310-14, S&E, Astrionics Laboratory, Optics & Radio Frequency Division, Optics Branch. Closes tomorrow.

CPP 98-53-DC, Office Automation Assistant, GS-326-7, S&E, Astrionics Laboratory. Closes May 26.

CPP 98-51-CP, AST, Technical Management Systems, GS-801-14, Systems Analysis & Integration Lab., Configuration Management Division, Project Support Branch. Closes May 19.

CPP 98-58-DC, AST, Optical Physics, GS-1310-14, S&E, Astrionics Lab., Optics & RF Division, Electro-Optics Branch. Closes May 19.

MARSHALL STAR

Marshall Space Flight Center, Alabama 35812

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